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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/540,534	03/31/2000	Jay X. Xia	PM 265730 (P8402)	1807

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PILLSBURY WINTHROP LLP
725 S. FIGUEROA STREET
SUITE 2800
LOS ANGELES, CA 90017

EXAMINER

NGUYEN, PHUOC H

ART UNIT PAPER NUMBER

2143

DATE MAILED: 04/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/540,534

Applicant(s)

XIA, JAY X.

Examiner

Phuoc H. Nguyen

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on amendment filed on February 2, 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. This office action is in response to the amendment filed on February 2, 2004 (Paper No. 13). Previous office action contained claims 1-21. Applicant amended claims 1,7, and 13, and added claims 22-33. Amendment filed on February 2, 2004 have been entered and made of record.

Response to Arguments

2. Applicant's arguments with respect to claims 1-33 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-33 rejected under 35 U.S.C. 103(a) as being unpatentable over Leong et al. U.S. Patent 6,269,398 in view of applicant admitted prior art (AAPA) on pages 1-2 of the specification and further in view of Dobbins et al. U.S. Patent 5,509,123.
5. Referring to claim 1, Leong reference discloses a routing component that implements IP routing protocols for data processed by the router (col. 9, lines 33 through col. 10, lines 9); and an interface component for a user to view and modify features of the router in real time, wherein

the router utilizes a real-time operating system (eg. the network manager use SNMP to view the router configuration, further the network manager also use the Telnet command to obtain certain information or modify the router configuration as one all known that all these is happened in real time), the interface component displaying the features of the router to the user as a hierarchical tree having attributes that store values relating to the IP routing protocols, and components that represent functionality of the IP routing protocol, the components containing one or more sub-components or attributes, the attributes being modifiable with a single initialization of the router (Figures 4,5, and 14; col. 2, lines 29-39, col. 3, lines 63 through col. 4, lines 20; col. 5, lines 55-60 and col. 7, lines 27-48, For further explain figure 14 of Leong reference disclose add/delete/change icons that allow the administrator to make a modification to the routing table and by click on the apply button that will causes the network management system to have the router update its routing tables. Furthermore, the menu string for the new commands will then appear on the designated menus dynamically without need to restart the system); however, Leong reference fail to teach a routing component that implements IP routing protocols for data processed by the router, wherein a workstation functions as the router via the IP routing protocols.

AAPA disclose a workstation functions as the router via the IP routing protocols (page 1, last paragraph through 1st paragraph of page 2).

It would have been obvious to one of the ordinary skill in the art at the time of the invention was made to incorporate APPA's teaching into Leong's system to provide an easy way to maintain or implement the router.

However, the combine system of (Leong and AAPA) is silent to disclose the hierarchical tree displaying the attributes, the components, and the subcomponents to the user.

Dobbins reference disclose the hierarchical tree displaying the attributes, the components, and the subcomponents to the user (Figures 13, and 16).

It would have been obvious to one of the ordinary skill in the art at the time of the invention was made to incorporate Dobbins's teaching into Leong and AAPA system to display the attributes, components, and subcomponents to the user, as a result, it allows user to quickly review the status of the router.

6. Referring to claim 2, Leong reference discloses the interface component is accessible by a user through a command-line interface (col. 2, lines 29-39; col. 3, lines 63 through col. 4, lines 20; and col. 6, lines 24-28).

7. Referring to claim 3, Leong reference discloses the interface component is accessible by a user through a graphical interface (col. 3, lines 63 through col. 4, lines 20; and col. 6, lines 24-28).

8. Referring to claim 4, Leong reference discloses the interface component updates the router component in real-time to reflect changes made by the user to the attributes or the components (col. 12, lines 26-39).

9. Referring to claims 5, and 6, Leong reference discloses the router is a dedicated hardware router, and a general purpose computer (col. 6, lines 44 through col. 7, lines 15).

10. Referring to claims 7, and 13, Leong reference discloses a routing component that implements IP routing protocols for data processed by the router (col. 9, lines 33 through col. 10, lines 9), organizing features relating to routing protocols of a router into a hierarchically

formatted component tree, the features including attributes that store values relating to the IP routing protocols and components that represent functionality of the IP routing protocols (Fig. 4; col. 10, lines 17-23; and col. 11, lines 26 through col. 12, lines 19; eg. Leong disclose a portion of the hierarchical tree format, Figure 4); displaying a portion of the hierarchically formatted component tree to a user in response to a first command from the user (col. 13, lines 23-37); modifying the component tree in response to a second command from the user, wherein the attributes are modifiable within a single initialization of the router (Figure 14; col. 14, lines 7-67; col. 13, lines 12-39; col. 12, lines 26-39; and col. 14, lines 63-67; see claim for more explanation); and updating, in real-time, features of the router relating to the routing protocol that were changed by the user when modifying the component tree, wherein the router utilizes a real-time operating system (col. 14, lines 40-67; and col. 12, lines 26-39; eg. the network manager use SNMP to view the router configuration, further the network manager also use the Telnet command to obtain certain information or modify the router configuration as one all known that all these is happened in real-time). However, Leong reference fail to teach a routing component that implements IP routing protocols for data processed by the router, wherein a workstation functions as the router via the IP routing protocols.

AAPA disclose a workstation functions as the router via the IP routing protocols (page 1, last paragraph through 1st paragraph of page 2).

It would have been obvious to one of the ordinary skill in the art at the time of the invention was made to incorporate APPA's teaching into Leong's system to provide an easy way to maintain or implement the router.

However, the combine system of (Leong and AAPA) is silent to disclose the hierarchical tree displaying the attributes, the components, and the subcomponents to the user.

Dobbins reference disclose the hierarchical tree displaying the attributes, the components, and the subcomponents to the user (Figures 13, and 16).

It would have been obvious to one of the ordinary skill in the art at the time of the invention was made to incorporate Dobbins's teaching into Leong and AAPA system to display the attributes, components, and subcomponents to the user, as a result, it allows user to quickly review the status of the router.

11. Referring to claims 8, and 14 Leong reference discloses the hierarchical component tree includes attributes that store values relating to the routing protocols and components that represent functionality of the routing protocols, the components containing one or more sub-components or attributes (fig. 4; and col. 12, lines 12-45).

12. Referring to claims 9, and 15 Leong reference discloses the first command is a display command (col. 14, lines 22-41).

13. Referring to claims 10, and 16 Leong reference discloses the second command is a set preference command (col. 14, lines 6-67).

14. Referring to claims 11, and 17, Leong reference discloses the user inputs the first and second commands via a command-line interface (col. 2, lines 29-39; col. 3, lines 63 through col. 4, lines 20; col. 6, lines 24-28; and col. 14, lines 9-15).

15. Referring to claims 12, and 18, Leong reference discloses the user inputs the first and second commands via a graphical interface (col. 3, lines 63 through col. 4, lines 20; col. 6, lines 24-28; and col. 14, lines 7-67).

16. Referring to claims 19-21, Leong reference discloses router operating after an initial initialization, and the attributes being modified after the initial initialization, but before a subsequent initialization (Figures 3(a), and 3(b); and col. 13, lines 65 through col. 14, lines 67).

17. Claims 22-33 rejected under 35 U.S.C. 103(a) as being unpatentable over Leong-AAPA-Dobbin.

Leong-AAPA-Dobbin reference disclose a workstation function as the router, a user can view and modify dynamic routing protocol features of the router in real time, and the hierarchical tree displaying the attributes, the components, and the subcomponents to the user; however, Leong-AAPA-Dobbin reference fail to teach the attributes relates to a physical connection, a cost to transmit a packet, a dynamic routing protocol, and the router should contact neighbor nodes in order to maintain a live connection.

It would have been obvious to one of the ordinary skill in the art at the time of the invention was made to display the attributes relates to a physical connection used by the interface component, a cost to transmit a packet to the interface component, a dynamic routing protocol designated router election for a local network, and the router should contact neighbor nodes in order to maintain a live connection, because by providing these attributes it allows network manager for better understanding of the current router configuration, and provide a quicker approach for modifying the router configuration.

Conclusion

19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kulkarni et al. U.S. Patent 5,848,243

Fehskens et al. U.S. Patent 6,438,591

Narvaez-Guarnieri et al. U.S. Patent 6,347,078

Reichmeyer et al. U.S. Patent 6,286,038

Chari U.S. Patent 6,046,742

Kathail et al. U.S. Patent 6,704,752

Pelavin et al. U.S. Patent 6,393,486

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuoc H. Nguyen whose telephone number is 703-305-5315. The examiner can normally be reached on Mon -Thu (7AM-4:30PM) and off every other Friday.

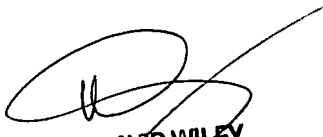
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on 703-308-5221. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Phuoc H. Nguyen
Examiner
Art Unit 2143

April 9, 2004


DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100